

Title (en)

Lane judgement equipment and navigation system

Title (de)

Spurbeurteilungsausrüstung und Navigationssystem

Title (fr)

Équipement de jugement de voie et système de navigation

Publication

EP 2269883 A1 20110105 (EN)

Application

EP 10167694 A 20100629

Priority

JP 2009156118 A 20090630

Abstract (en)

There is provided lane judgement equipment that is capable of quickly and accurately judging the lane that a vehicle is traveling in on a road with plural lanes in each direction. It comprises a vehicle position detection unit (6), a map information acquisition unit (7), and a reference position detection unit (1) adapted to detect a reference position that is set in advance in the vicinity of an entrance to the road with plural lanes in each direction. In order to determine on what lane the vehicle is travelling a road-width direction traveled distance computation unit computes a distance traveled in a road-width direction from the reference position detected by the reference position detection unit (1) to the position of the vehicle on the road with plural lanes in each direction. A lane judgement unit (5) judges the lane that the vehicle is traveling in based on the distance traveled in the road-width direction as computed by the road-width direction traveled distance computation unit and on the map information acquired by the map information acquisition unit (7).

IPC 8 full level

B60W 30/12 (2006.01); **B60W 40/06** (2012.01); **G01C 21/00** (2006.01); **G01C 21/28** (2006.01); **G08G 1/16** (2006.01)

CPC (source: EP US)

B60W 30/12 (2013.01 - EP); **B60W 40/072** (2013.01 - EP US); **B60W 40/076** (2013.01 - EP US); **G01C 21/00** (2013.01 - US); **B60W 2520/10** (2013.01 - EP US); **B60W 2540/18** (2013.01 - EP); **B60W 2552/05** (2020.02 - EP US); **B60W 2556/50** (2020.02 - EP US)

Citation (applicant)

- JP 2006023278 A 20060126 - NISSAN MOTOR
- JP 2000105898 A 20000411
- JP H11211491 A 19990806 - MITSUBISHI ELECTRIC CORP

Citation (search report)

- [A] US 2007010938 A1 20070111 - KUBOTA TOMOKI [JP], et al
- [A] US 2008221767 A1 20080911 - IKEDA YUKIHIRO [JP], et al
- [A] US 2007142995 A1 20070621 - WOTLERMANN BERND [DE]
- [A] DE 102005039103 A1 20070301 - BOSCH GMBH ROBERT [DE]
- [A] US 2005216172 A1 20050929 - SCHRODER MARKO [DE]

Cited by

CN110329253A; US11260871B2; US10359290B2

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)

BA ME RS

DOCDB simple family (publication)

EP 2269883 A1 20110105; JP 2011013039 A 20110120; US 2010332127 A1 20101230

DOCDB simple family (application)

EP 10167694 A 20100629; JP 2009156118 A 20090630; US 82615910 A 20100629